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☐	US2003028348	System and method for analyzing a surface by mapping sample points onto the surface and sampling the surface at the mapped points
☐	WO02099754	IMAGE RENDERING USING STRICTLY DETERMINISTIC METHODOLOGIES USING RECURSIVE ROTATIONS FOR GENERATING SAMPLE POINTS
☐	WO02099751	RENDERING IMAGES USING A STRICTLY-DETERMINISTIC METHODOLOGY FOR GENERATING A COARSE SEQUENCE OF SAMPLE POINTS
☐	US2002146152	System and method for scanning a region using a low discrepancy sequence
☐	US2002141645	System and method for scanning a region using a low discrepancy curve
☐	US2002140700	System and method for generating a low discrepancy curve in a region
☐	US6370270	System and method for sampling and/or placing objects using low discrepancy sequences
☐	US6229921	Pattern matching system and method with improved template image sampling using low discrepancy sequences
☐	US6222940	Pattern matching system and method which detects rotated and scaled template images
☐	US6219452	Pattern matching system and method which performs local stability analysis for improved efficiency
☐	GB951735	Self-adaptive control system
☐	EP1079321	Estimation method and system for complex securities, and portfolio structuring, using low-discrepancy deterministic sequences
☐	EP1018708	System and method for sampling and/or placing objects using low discrepancy sequences
☐	US6058377	Portfolio structuring using low-discrepancy deterministic sequences
☐	US5872725	Quasi-random number generation apparatus and method, and multiple integration apparatus and method of function f

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13.	62 - 080773(1987)	METHOD FOR DECIDING BORDER
14.	62 - 010720(1987)	COORDINATE INPUT DEVICE
15.	61 - 269948(1986)	FLAT DIE FOR FORM ROLLING
16.	61 - 201440(1986)	APPARATUS FOR WAFER ALIGNMENT
17.	60 - 124833(1985)	APPEARANCE INSPECTING DEVICE OF LSI WAFER
18.	59 - 128749(1984)	AUGER ELECTRON SPECTRO SCOPIC ANALYZER
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20.	58 - 089749(1983)	EXPOSURE APPARATUS FOR FORMATION OF PHOSPHOR SURFACE
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1.	2003 - 066208	DISCRETE PATTERN, OPTICAL MEMBER USING THE SAME, LIGHT TRANSMISSION PLATE, SIDELIGHT DEVICE, TRANSMISSIVE LIQUID CRYSTAL DISPLAY DEVICE, AND METHOD, PROGRAM AND SYSTEM FOR GENERATING THE DISCRETE PATTERN AND COMPUTER READABLE RECORDING MEDIUM WITH COMPUTER READABLE PROGRAM FOR GENERATING THE DISCRETE PATTERN RECORDED THEREON
2.	10 - 293849(1998)	IMAGE MATCHING DEVICE
3.	01 - 103039(1989)	MONITORING SYSTEM FOR MULTIPLEXER
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5.	2003 - 054628	SUSPENDIBLE PACKAGING BAG
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Iwata, K.; Ishii, N.;
Intelligent Control, 2002. Proceedings of the 2002 IEEE Internatinal Symposium
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3 **Quasi-Monte Carlo methods in cash flow testing simulations**
Hilgers, M.G.;
Simulation Conference Proceedings, 2000. Winter , Volume: 1 , 10-13 Dec. 200
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Engineering in Medicine and Biology Society, 1998. Proceedings of the 20th Ann
International Conference of the IEEE , Volume: 6 , 29 Oct.-1 Nov. 1998
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[Abstract] [PDF Full-Text (272 KB)] **IEEE CNF**

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Al-Mharmah, H.A.;
Simulation Conference Proceedings, 1998. Winter , Volume: 1 , 13-16 Dec. 199
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Pattern Recognition, 2000. Proceedings. 15th International Conference on , Vol 4 , 3-7 Sept. 2000
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[Abstract] [PDF Full-Text (836 KB)] **IEEE CNF**

7 **Performance evaluation of enhancement dynamic wedge implementa a radiotherapy treatment planning system**
Picon, C.; Linero, D.; Gracia, A.; Saldana, O.; Lizuain, M.C.;
Engineering in Medicine and Biology Society, 2000. Proceedings of the 22nd Ann International Conference of the IEEE , Volume: 1 , 23-28 July 2000
Page(s): 218 -224 vol.1

[Abstract] [PDF Full-Text (264 KB)] **IEEE CNF**

8 **Evaluation of the calculated PDD of a 3D electron beam algorithm in a radiotherapy planning system**
Gracia, A.; Linero, D.; Picon, C.; Saldana, O.; Lizuain, M.C.;
Engineering in Medicine and Biology Society, 2000. Proceedings of the 22nd Ann International Conference of the IEEE , Volume: 1 , 23-28 July 2000
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[Abstract] [PDF Full-Text (240 KB)] **IEEE CNF**

9 **Comparative analysis of IEEE 112-B and IEC 34-2 efficiency testing standards using stray load losses in low voltage three-phase, cage indu motors**
de Almeida, A.T.; Ferreira, F.T.E.; Busch, J.F.; Angers, P.;

Industrial and Commercial Power Systems Technical Conference, 2001. Confere Record. Papers Presented at the 2001 Annual Meeting. 2001 IEEE , 15-16 May
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10 **Parallel and distributed computing issues in pricing financial derivat through quasi Monte Carlo**
Srinivasan, A.;
Parallel and Distributed Processing Symposium., Proceedings International, IPD 2002, Abstracts and CD-ROM , 15-19 April 2002
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11 **Estimation of power consumption in encoded data buses**
Ortiz, A.G.; Kabulepa, L.D.; Glesner, M.;
Design, Automation and Test in Europe Conference and Exhibition, 2002. Proceedings , 4-8 March 2002
Page(s): 1103

[Abstract] [PDF Full-Text (209 KB)] **IEEE CNF**

12 **Acoustic noise prediction in a vector controlled induction machine**
Martinez-Munoz, D.; Lai, J.C.S.;
Electric Machines and Drives Conference, 2003. IEMDC'03. IEEE International , Volume: 1 , 1-4 June 2003
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13 **I/V anomaly and device performance of submicrometre-gate $Ga_{0.47}In_{0.53}As/Al_{0.48}In_{0.52}As$ HEMT**
Kuang, J.B.; Tasker, P.J.; Chen, Y.K.; Wang, G.W.; Eastman, L.F.; Aina, O.A.; H H.; Fathimulla, A.;
Electronics Letters , Volume: 24 Issue: 25 , 8 Dec. 1988
Page(s): 1571 -1572

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14 **Transverse magnetization due to shearing stress on amorphous ferromagnetic materials**

Cecchetti, A.; Masoli, F.; Poppi, M.; Soardo, G.;
Magnetics, IEEE Transactions on , Volume: 17 Issue: 6 , Nov 1981
Page(s): 2834 -2836

[Abstract] [PDF Full-Text (296 KB)] **IEEE JNL**

15 **Propagation Tests for 23 GHz and 40 GHz**
Hata, M.; Shigeyuki Doi;
Selected Areas in Communications, IEEE Journal on , Volume: 1 Issue: 4 , Sep
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1 Computational investigations of low-discrepancy sequences 99%

Ladislav Kocis , William J. Whiten

ACM Transactions on Mathematical Software (TOMS) June 1997

Volume 23 Issue 2

The Halton, Sobol, and Faure sequences and the Braaten-Weller construction of the generalized Halton sequence are studied in order to assess their applicability for the quasi Monte Carlo integration with large number of variates. A modification of the Halton sequence (the Halton sequence leaped) and a new construction of the generalized Halton sequence are suggested for unrestricted number of dimensions and are shown to improve considerably on the original Halton sequence. Problems associat ...

2 Induced well-distributed sets in Riemannian spaces 98%

Lothar Wenzel , Ram Rajagopal , Dinesh Nair

ACM Transactions on Mathematical Software (TOMS) March 2003

Volume 29 Issue 1

The concept of Riemannian geometries is used to construct induced homogeneous point sets on manifolds that are based on well-distributed point sets in unit cubes of an appropriately chosen Euclidean space. These well-distributed point sets in unit cubes are based on standard low-discrepancy sequences. The approach is algorithmic, that is, the methods developed in this article have been implemented and tested. Applications in image processing, graph theory and measurement-based exploration are pr ...

3 Analysis methodology I: Quasi-Monte Carlo methods in cash flow testing simulations 98%

Michael G. Hilgers

Proceedings of the 32nd conference on Winter simulation December 2000

What actuaries call *cash flow testing* is a large-scale simulation pitting a company's current policy obligation against future earnings based on interest rates. While life contingency issues associated with contract payoff are a mainstay of the actuarial sciences, modeling the random fluctuations of US Treasury rates is less studied. Furthermore, applying standard simulation techniques, such as the Monte Carlo method, to actual multi-billion dollar companies produce a simulation that can ...

4 Implementation and tests of low-discrepancy sequences 98%



Paul Bratley , Bennett L. Fox , Harald Niederreiter

ACM Transactions on Modeling and Computer Simulation (TOMACS) July 1992 Volume 2 Issue 3

Low-discrepancy sequences are used for numerical integration, in simulation, and in related applications. Techniques for producing such sequences have been proposed by, among others, Halton, Sobol´, Faure, and Niederreiter. Niederreiter's sequences have the best theoretical asymptotic properties. The paper describes two ways to implement the latter sequences on a computer and discusses the results obtained in various practical tests on particular integrals.

5 Instant radiosity 97%



Alexander Keller

Proceedings of the 24th annual conference on Computer graphics and interactive techniques August 1997

6 Variance reduction applied to product form multiclass queuing networks 96%



Bruno Tuffin

ACM Transactions on Modeling and Computer Simulation (TOMACS) October 1997 Volume 7 Issue 4

Performance of product-form multiclass queuing networks can be determined from normalization constants. For large models, the evaluation of these performance metrics is not possible because of the required amount of computer resources (either by using normalization constants or by using MVA approaches). Such large models can be evaluated with Monte Carlo summation and integration methods. This article proposes two cluster sampling Monte Carlo techniques to deal with such models. First, for ...

7 Polynomial arithmetic analogue of Halton sequences 95%



Shu Tezuka

ACM Transactions on Modeling and Computer Simulation (TOMACS) April 1993 Volume 3 Issue 2

8 Fast generation of low discrepancy points based on Fibonacci polynomials 95%



Shu Tezuka , Masanori Fushimi

Proceedings of the 24th conference on Winter simulation December 1992

9 Computing the discrepancy with applications to supersampling patterns 95%



David P. Dobkin , David Eppstein , Don P. Mitchell

ACM Transactions on Graphics (TOG) October 1996 Volume 15 Issue 4

Patterns used for supersampling in graphics have been analyzed from statistical and

signal-processing viewpoints. We present an analysis based on a type of isotropic discrepancy—how good patterns are at estimating the area in a region of defined type. We present algorithms for computing discrepancy relative to regions that are defined by rectangles, halfplanes, and higher-dimensional figures. Experimental evidence shows that popular supersampling patterns have discrepancies with bette ...

10 Algorithm 647: Implementation and Relative Efficiency of Quasirandom Sequence Generators 92%

Bennett L. Fox
ACM Transactions on Mathematical Software (TOMS) March 1987
Volume 12 Issue 4

11 Programs to generate Niederreiter's low-discrepancy sequences 90%

Paul Bratley , Bennett L. Fox , Harald Niederreiter
ACM Transactions on Mathematical Software (TOMS) December 1994
Volume 20 Issue 4
This note points out programs to implement Niederreiter's low-discrepancy sequences.

12 The space shuttle primary computer system 89%

Alfred Spector , David Gifford
Communications of the ACM September 1984
Volume 27 Issue 9

13 Average performance of quasi Monte Carlo methods for global optimization 89%

Hisham A. Al-Mharmah
Proceedings of the 30th conference on Winter simulation December 1998

14 Latin supercube sampling for very high-dimensional simulations 89%

Art B. Owen
ACM Transactions on Modeling and Computer Simulation (TOMACS) January 1998
Volume 8 Issue 1
This article introduces Latin supercube sampling (LSS) for very high-dimensional simulations such as arise in particle transport, finance, and queueing. LSS is developed as a combination of two widely used methods: Latin hypercube sampling (LHS) and quasi-Monte Carlo (QMC). In LSS, the input variables are grouped into subsets, and a lower-dimensional QMC method is used within each subset. The QMC points are presented in random order within subsets. QMC methods have been observed to lose eff ...

15 Recent advances in simulation for security pricing 89%

Phelim Boyle , Mark Broadie , Paul Glasserman
Proceedings of the 27th conference on Winter simulation December 1995

16 Advanced tutorials: Option pricing: simulation in financial engineering 88%

Jeremy Staum
Proceedings of the 33nd conference on Winter simulation December 2001
This paper presents an overview of the use of simulation algorithms in the field of financial engineering, assuming on the part of the reader no familiarity with finance

and a modest familiarity with simulation methodology, but not its specialist research literature. The focus is on the challenges specific to financial simulations and the approaches that researchers have developed to handle them, although the paper does not constitute a comprehensive survey of the research literature. It offers ...

17 On the anomaly of ran1() in Monte Carlo pricing of financial derivatives 88%
Akira Tajima , Syoiti Ninomiya , Shu Tezuka
Proceedings of the 28th conference on Winter simulation November 1996

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Shu Tezuka , Takeshi Tokuyama
ACM Transactions on Modeling and Computer Simulation (TOMACS) July 1994
Volume 4 Issue 3

19 Algorithm 823: Implementing scrambled digital sequences 88%
Hee Sun Hong , Fred J. Hickernell
ACM Transactions on Mathematical Software (TOMS) June 2003
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Random scrambling of deterministic (*t*, *m*, *s*)-nets and (*t*, *s*)-sequences eliminates their inherent bias while retaining their low-discrepancy properties. This article describes an implementation of two types of random scrambling, one proposed by Owen and another proposed by Faure and Tezuka. The four different constructions of digital sequences implemented are those proposed by Sobol', Faure, Niederreiter, and Niederreiter and Xing. Because the random scrambling ...

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IEEE/ACM Transactions on Networking (TON) April 1996
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